



#7/Amdt A
7.25.03
C. Moore
Docket No.: A8319.0007/P007
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Masaya Adachi, et al.

Application No.: 09/940,887

Group Art Unit: 2879

Filed: August 29, 2001

Examiner: Sikha Roy

For: LIGHT-EMITTING DEVICES AND LIGHT-
EMITTING DISPLAYS

AMENDMENT

U.S. Patent and Trademark Office
2011 South Clark Place
Customer Window, Mail Stop Non-Fee Amendment
Crystal Plaza Two, Lobby, Room 1B03
Arlington, VA 22202

Dear Sir:

In response to the Office Action dated February 12, 2003 (Paper No. 9), please
amend the above-identified U.S. patent application as follows.

RECEIVED
JUL 17 2003
TECHNOLOGY CENTER 2800

Amendments to the Written Description

Page 12, line 9 through page 13, line 3:

a¹ Since the ambient light that enters the light-emitting devices under the bright environment is generally the unpolarized light, when it passes through the polarizer, at least the half of it is absorbed. When the light passing through the polarizer is transmitted through the phase ~~late~~ plate, it is subjected to the operation thereof, becomes the circularly polarized light (for example, dextrorotatory circularly polarized light) and is transmitted through cholesteric liquid crystal layers. When the light transmitted through the cholesteric liquid crystal layers is reflected by the reflective elements, it becomes the circularly polarized light (levorotatory circularly polarized light) in the direction opposite to the above rotating direction and is incoming into the cholesteric liquid crystal layers again. In the light which was incoming into the cholesteric liquid crystal layers, the light of the wavelength other than the selective reflection wavelength is transmitted as it is, is subjected to the operation of the phase plate, becomes the linearly polarized light which is absorbed by the polarizer, and is absorbed by the polarizer, so that it is not transmitted to the outside.

Page 26, lines 14 – 25:

a² The light emitted from the emissive layer 100, therefore, is directed toward the observer ~~1000~~ 10000 without almost being absorbed by the polarizer. That is, by effectively reusing the light which has conventionally been absorbed by the polarizer and become wasteful, there is an effect such that luminance of the light-emitting devices is improved. As a light extracting method, since the light 1002 transmitted through the

Application No.: 09/940,887

Docket No.: A8319.0007/P007

*Concluded
A2*
polarization separators 500 and the light 1003 reflected by the polarization separators 500
can be extracted, high using efficiency of the light is obtained.
